IN THE CLAIMS

Please amend the claims as follows:

Claims 1-18 (Cancelled)

Claim 19 (Currently Amended): A compound of formula (Ib) or a pharmaceutically acceptable salt or solvate thereof:

wherein

R³¹ represents a hydrogen atom, a fluorine atom at 2-position, a fluorine atom at 3-position, methoxy at 2-position, methoxy at 3-position, or methyl at 2- and 5-positions,

R³² represents methyl, and

R³³ represents a hydrogen atom, methyl at 1-position, methyl at 2-position, or methyl at 1- and 2-positions.

Claim 20 (Previously Presented): The compound according to claim 19, wherein the compound represented by formula (Ib) is represented by formula (Ib-1):

wherein R³¹, R³², and R³³ are as defined in formula (Ib).

Claim 21 (Previously Presented): The compound according to claim 19, wherein the compound represented by formula (Ib) is represented by formula (1b-2):

wherein R³¹, R³², and R³³ are as defined in formula (Ib).

Claim 22 (Currently Amended): A compound of formula (Ic) or a pharmaceutically acceptable salt or solvate thereof:

wherein

R⁴¹ represents a hydrogen atom, a fluorine atom at 2-position, a fluorine atom at 3-position, a chlorine atom at 2-position, a chlorine atom at 3-position, methyl at 2- and 3-positions, methyl at 2- and 5-positions, methoxy at 2-position, methoxy at 3-position, methyl at 2-position, or trifluoromethyl at 2-position,

R⁴² represents methyl,

R⁴³ represents a fluorine atom at 4-position, a bromine atom at 3-position, a bromine atom at 4-position, methoxy at 2-position, methoxy at 3-position, methoxy at 4-position, a chlorine atom at 4-position, methyl at 4-position, or nitro at 4-position.

Claim 23 (Currently Amended): A compound of formula (Id) or a pharmaceutically acceptable salt or solvate thereof:

wherein

X represents CH or N,

R⁵¹ represents a hydrogen atom, a fluorine atom at 2-position, a fluorine atom at 3-position, methoxy at 2-position, methoxy at 3-position, or methyl at 2- and 5-positions,

R⁵² represents methyl,

 R^{53} represents imidazolyl, pyrazolyl, oxazolyl, isoxazolyl, thiazolyl, or isothiazolyl in which one or two hydrogen atoms on the groups are optionally substituted by a halogen atom or C_{1-4} alkyl, and

 R^{54} and R^{55} , which may be the same or different, represent a hydrogen atom or C_{1-6} alkyl in which the alkyl group is optionally substituted by hydroxyl; a halogen atom; $-OR^{56}$ wherein R^{56} represents C_{1-4} alkyl; $-NR^{57}R^{58}$ wherein R^{57} and R^{58} , which may be the same or different, represent a hydrogen atom or C_{1-4} alkyl in which the alkyl group is optionally substituted by hydroxyl or $-OR^{59}$ wherein R^{59} represents C_{1-4} alkyl; or a saturated or unsaturated three- to seven-membered carbocyclic or heterocyclic group in which the carbocyclic and heterocyclic groups are optionally substituted by one or two halogen atoms or C_{1-4} alkyl.

Claim 24 (Original): The compound according to claim 23, wherein

X represents CH, and

R⁵² represents



Claim 25 (Original): The compound according to claim 24, wherein R^{54} and R^{55} represent methyl.

Claim 26 (Original): The compound according to claim 24, wherein R⁵⁴ represents methyl, and

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 R^{55} represents C_{1-4} alkyl substituted by a saturated or unsaturated five- or six-membered carbocyclic or heterocyclic group.

Claim 27 (Original): The compound according to claim 23, wherein

X represents CH, and

R⁵² represents



Claim 28 (Original): The compound according to claim 27, wherein R⁵⁴ and R⁵⁵ represent methyl.

Claim 29 (Original): The compound according to claim 27, wherein

R⁵⁴ represents methyl, and

 R^{55} represents C_{1-4} alkyl substituted by a saturated or unsaturated five- or six-membered carbocyclic or heterocyclic group.

Claim 30 (Original): The compound according to claim 23, wherein

X represents N, and

R⁵² represents



Claim 31 (Original): The compound according to claim 30, wherein R^{54} and R^{55} represent methyl.

Claim 32 (Original): The compound according to claim 30, wherein

R⁵⁴ represents methyl, and

R⁵⁵ represents C₁₋₄ alkyl substituted by a saturated or unsaturated five- or six-membered carbocyclic or heterocyclic group.

Claim 33 (Original): The compound according to claim 23, wherein

X represents N, and

R⁵² represents

Claim 34 (Original): The compound according to claim 33, wherein R⁵⁴ and R⁵⁵ represent methyl.

Claim 35 (Original): The compound according to claim 33, wherein

R⁵⁴ represents methyl, and

 R^{55} represents C_{1-4} alkyl substituted by a saturated or unsaturated five- or six-membered carbocyclic or heterocyclic group.

Claim 36 (Currently Amended): A compound of formula (Ie) or a pharmaceutically acceptable salt or solvate thereof:

wherein

R⁶⁰¹ represents a hydrogen atom, a fluorine atom at 2-position, a fluorine atom at 3-position, a chlorine atom at 2-position, a chlorine atom at 3-position, methyl at 2- and 3-positions, methyl at 2- and 5-positions, methoxy at 2-position, methoxy at 3-position, methyl at 2-position, or trifluoromethyl at 2-position,

R⁶⁰² represents methyl,

X represents N or CH,

 R^{604} and R^{605} , which may be the same or different, represent a hydrogen atom or C_{1-6} alkyl in which the alkyl group is optionally substituted by hydroxyl; a halogen atom; $-OR^{606}$ wherein R^{606} represents C_{1-4} alkyl; $-NR^{607}R^{608}$ wherein R^{607} and R^{608} , which may be the same or different, represent a hydrogen atom or C_{1-4} alkyl in which the alkyl group is optionally substituted by hydroxyl or $-OR^{609}$ wherein R^{609} represents C_{1-4} alkyl; or a saturated or unsaturated three- to seven-membered carbocyclic or heterocyclic group in which the carbocyclic and heterocyclic groups are optionally substituted by one or two halogen atoms or C_{1-4} alkyl, and

 R^{611} , R^{612} , R^{613} , R^{614} , and R^{615} , which may be the same or different, represent a hydrogen atom; C_{1-6} alkyl; $-OR^{616}$ wherein R^{616} represents C_{1-4} alkyl; a halogen atom; nitro; or $-NR^{617}R^{618}$ wherein R^{617} and R^{618} , which may be the same or different, represent a hydrogen atom or C_{1-4} alkyl in which the alkyl group is optionally substituted by hydroxyl, $-OR^{619}$ wherein R^{619} represents C_{1-4} alkyl, or $-NR^{620}R^{621}$ wherein R^{620} and R^{621} , which may be the same or different, represent a hydrogen atom or C_{1-4} alkyl.

Claim 37 (Original): The compound according to claim 36, wherein X represents CH and all of R⁶¹¹, R⁶¹², R⁶¹³, R⁶¹⁴, and R⁶¹⁵ represent a hydrogen atom, or any one of R⁶¹¹, R⁶¹², R⁶¹³, R⁶¹⁴, and R⁶¹⁵ represents a group other than a hydrogen atom and the remaining groups represent a hydrogen atom.

Claim 38 (Original): The compound according to claim 37, wherein all of R^{611} , R^{612} , R^{613} , R^{614} , and R^{615} represent a hydrogen atom, or any one of R^{611} , R^{612} , R^{613} , R^{614} , and R^{615} represents C_{1-6} alkyl, $-OR^{616}$, a halogen atom, or nitro and the remaining groups represent a hydrogen atom.

Claim 39 (Original): The compound according to claim 38, wherein R⁶¹¹ represents methoxy and R⁶¹², R⁶¹³, R⁶¹⁴, and R⁶¹⁵ represent a hydrogen atom, or R⁶¹² represents a bromine atom or methoxy and R⁶¹¹, R⁶¹³, R⁶¹⁴, and R⁶¹⁵ represent a hydrogen atom, or R⁶¹³ represents a bromine atom, a chlorine atom, a fluorine atom, methyl, methoxy, or nitro and R⁶¹¹, R⁶¹², R⁶¹⁴, and R⁶¹⁵ represent a hydrogen atom.

Claim 40 (Previously Presented): The compound according to claim 37, wherein R^{604} and R^{605} represent methyl.

Claim 41 (Previously Presented): The compound according to claim 37, wherein R^{604} represents methyl and R^{605} represents C_{1-4} alkyl substituted by a saturated or unsaturated five- or six-membered carbocyclic or heterocyclic group.

Claim 42 (Original): The compound according to claim 36, wherein X represents N and all of R⁶¹¹, R⁶¹², R⁶¹³, R⁶¹⁴, and R⁶¹⁵ represent a hydrogen atom, or any one of R⁶¹¹, R⁶¹², R⁶¹³, R⁶¹⁴, and R⁶¹⁵ represents a group other than a hydrogen atom and the remaining groups represent a hydrogen atom.

Claim 43 (Original): The compound according to claim 42, wherein all of R^{611} , R^{612} , R^{613} , R^{614} , and R^{615} represent a hydrogen atom, or any one of R^{611} , R^{612} , R^{613} , R^{614} , and R^{615} represents C_{1-6} alkyl, $-OR^{616}$, a halogen atom, or nitro and the remaining groups represent a hydrogen atom.

Claim 44 (Original): The compound according to claim 43, wherein R⁶¹¹ represents methoxy and R⁶¹², R⁶¹³, R⁶¹⁴, and R⁶¹⁵ represent a hydrogen atom, or R⁶¹² represents a bromine atom or methoxy and R⁶¹¹, R⁶¹³, R⁶¹⁴, and R⁶¹⁵ represent a hydrogen atom, or R⁶¹³ represents a bromine atom, a chlorine atom, a fluorine atom, methyl, methoxy, or nitro and R⁶¹¹, R⁶¹², R⁶¹⁴, and R⁶¹⁵ represent a hydrogen atom.

Claim 45 (Previously Presented): The compound according to claim 42, wherein R^{604} and R^{605} represent methyl.

Claim 46 (Previously Presented): The compound according to claim 42, wherein R^{604} represents methyl and R^{605} represents $C_{1.4}$ alkyl substituted by a saturated or unsaturated five- or six-membered carbocyclic or heterocyclic group.

Claim 47 (Currently Amended): A compound of formula (If) or a pharmaceutically acceptable salt or solvate thereof:

wherein

X represents CH or N,

R⁷⁰¹ represents a hydrogen atom, a fluorine atom at 2-position, a fluorine atom at 3-position, methoxy at 2-position, methoxy at 3-position, or methyl at 2- and 5-positions,

 R^{702} represents C_{1-4} alkyl,

 R^{703} represents imidazolyl, pyrazolyl, oxazolyl, isoxazolyl, thiazolyl, or isothiazolyl in which one or two hydrogen atoms on the groups are optionally substituted by a halogen atom or C_{1-4} alkyl, and

R⁷⁰⁴ and R⁷⁰⁵, which may be the same or different, represent a hydrogen atom; hydroxyl; nitro; cyano; a halogen atom; -NR⁷⁰⁶R⁷⁰⁷ wherein R⁷⁰⁶ and R⁷⁰⁷, which may be the same or different, represent a hydrogen atom or C₁₋₄ alkyl in which the alkyl group is optionally substituted by hydroxyl, -OR⁷⁰⁸ wherein R⁷⁰⁸ represents C₁₋₄ alkyl, or -NR⁷⁰⁹R⁷¹⁰ wherein R⁷⁰⁹ and R⁷¹⁰, which may be the same or different, represent a hydrogen atom or C₁₋₄ alkyl; —CONR⁷¹¹R⁷¹² wherein R⁷¹¹ and R⁷¹², which may be the same or different, represent a hydrogen atom or C₁₋₄ alkyl in which the alkyl group is optionally substituted by hydroxyl, - OR^{713} wherein R^{713} represents C_{1-4} alkyl, or $-NR^{714}R^{715}$ wherein R^{714} and R^{715} , which may be the same or different, represent a hydrogen atom or C₁₋₄ alkyl; —COOR⁷¹⁶ wherein R⁷¹⁶ represents a hydrogen atom or C₁₋₄ alkyl in which the alkyl group is optionally substituted by hydroxyl, $-OR^{717}$ wherein R^{717} represents C_{1-4} alkyl, or $-NR^{718}R^{719}$ wherein R^{718} and R^{719} , which may be the same or different, represent a hydrogen atom or C₁₋₄ alkyl; C₁₋₆ alkyl; C₂₋₆ alkenyl; C2-6 alkynyl; or C1-6 alkoxy, in which the alkyl, alkenyl, alkynyl, and alkoxy groups are optionally substituted by hydroxyl, a halogen atom, $-OR^{720}$ in which R^{720} represents $C_{1\text{--}4}$ alkyl, -NR⁷²¹R⁷²² wherein R⁷²¹ and R⁷²², which may be the same or different, represent a hydrogen atom or C₁₋₄ alkyl in which the alkyl group is optionally substituted by hydroxyl or -OR 723 wherein R 723 represents C1-4 alkyl, or a saturated or unsaturated three- to sevenmembered carbocyclic or heterocyclic group in which the carbocyclic and heterocyclic groups are optionally substituted by one or two halogen atoms or C_{1-4} alkyl.

Claim 48 (Original): The compound according to claim 47, wherein X represents CH, and R^{702} represents



Claim 49 (Original): The compound according to claim 48, wherein R⁷⁰² represents methyl.

Claim 50 (Previously Presented): The compound according to claim 48, wherein R^{704} and R^{705} represent methoxy.

Claim 51 (Previously Presented): The compound according to claim 48, wherein R^{704} represents methoxy, and R^{705} represents C_{1-4} alkoxy substituted by a saturated or unsaturated five- or six-membered carbocyclic or heterocyclic group.

Claim 52 (Original): The compound according to claim 47, wherein X represents CH, and R^{702} represents



Claim 53 (Original): The compound according to claim 52, wherein R⁷⁰² represents methyl.

Claim 54 (Previously Presented): The compound according to claim 52, wherein R^{704} and R^{705} represent methoxy.

Claim 55 (Previously Presented): The compound according to claim 52, wherein R^{704} represents methoxy, and R^{705} represents C_{1-4} alkoxy substituted by a saturated or unsaturated five- or six-membered carbocyclic or heterocyclic group.

Claim 56 (Original): The compound according to claim 47, wherein X represents N, and R^{702} represents



Claim 57 (Original): The compound according to claim 56, wherein R⁷⁰² represents methyl.

Claim 58 (Previously Presented): The compound according to claim 56, wherein R^{704} and R^{705} represent methoxy.

Claim 59 (Previously Presented): The compound according to claim 56, wherein R^{704} represents methoxy, R^{705} represents C_{1-4} alkoxy substituted by a saturated or unsaturated five- or six-membered carbocyclic or heterocyclic group.

Claim 60 (Original): The compound according to claim 47, wherein X represents N, and R^{702} represents



Claim 61 (Original): The compound according to claim 60, wherein R⁷⁰² represents methyl.

Claim 62 (Previously Presented): The compound according to claim 60, wherein R^{704} and R^{705} represent methoxy.

Claim 63 (Previously Presented): The compound according to claim 60, wherein R^{704} represents methoxy, and R^{705} represents C_{1-4} alkoxy substituted by a saturated or unsaturated five- or six-membered carbocyclic or heterocyclic group.

Claim 64 (Currently Amended): A compound of formula (Ig) or a pharmaceutically acceptable salt or solvate thereof:

wherein

X represents CH or N,

R⁸⁰¹ represents a hydrogen atom, a fluorine atom at 2-position, a fluorine atom at 3-position, a chlorine atom at 2-position, a chlorine atom at 3-position, methyl at 2- and 3-positions, methyl at 2- and 5-positions, methoxy at 2-position, methoxy at 3-position, methyl at 2-position, or trifluoromethyl at 2-position,

R⁸⁰² represents C₁₋₄ alkyl,

R⁸⁰⁴ and R⁸⁰⁵, which may be the same or different, represent a hydrogen atom; hydroxyl; nitro; cyano; a halogen atom; -NR⁸⁰⁶R⁸⁰⁷ wherein R⁸⁰⁶ and R⁸⁰⁷, which may be the same or different, represent a hydrogen atom or C₁₋₄ alkyl in which the alkyl group is optionally substituted by hydroxyl, -OR⁸⁰⁸ wherein R⁸⁰⁸ represents C₁₋₄ alkyl, or -NR⁸⁰⁹R⁸¹⁰ wherein R⁸⁰⁹ and R⁸¹⁰, which may be the same or different, represent a hydrogen atom or C₁₋₄ alkyl; —CONR⁸¹¹R⁸¹² wherein R⁸¹¹ and R⁸¹², which may be the same or different, represent a

hydrogen atom or C₁₋₄ alkyl in which the alkyl group is optionally substituted by hydroxyl, - OR⁸¹³ wherein R⁸¹³ represents C₁₋₄ alkyl, or -NR⁸¹⁴R⁸¹⁵ wherein R⁸¹⁴ and R⁸¹⁵, which may be the same or different, represent a hydrogen atom or C₁₋₄ alkyl; —COOR⁸¹⁶ wherein R⁸¹⁶ represents a hydrogen atom or C₁₋₄ alkyl in which the alkyl group is optionally substituted by hydroxyl, -OR⁸¹⁷ wherein R⁸¹⁷ represents C₁₋₄ alkyl, or –NR⁸¹⁸R⁸¹⁹ wherein R⁸¹⁸ and R⁸¹⁹, which may be the same or different, represent a hydrogen atom or C₁₋₄ alkyl; C₁₋₆ alkyl; C₂₋₆ alkenyl; C₂₋₆ alkynyl; or C₁₋₆ alkoxy, in which the alkyl, alkenyl, alkynyl, and alkoxy groups are optionally substituted by hydroxyl, a halogen atom, -OR⁸²⁰ in which R⁸²⁰ represents C₁₋₄ alkyl, -NR⁸²¹R⁸²² wherein R⁸²¹ and R⁸²², which may be the same or different, represent a hydrogen atom or C₁₋₄ alkyl in which the alkyl group is optionally substituted by hydroxyl or -OR⁸²³ wherein R⁸²³ represents C₁₋₄ alkyl, or a saturated or unsaturated three- to sevenmembered carbocyclic or heterocyclic group in which the carbocyclic and heterocyclic groups are optionally substituted by one or two halogen atoms or C₁₋₄ alkyl, and

 R^{831} , R^{832} , R^{833} , R^{834} , and R^{835} , which may be the same or different, represent a hydrogen atom; hydroxyl; C_{1-6} alkyl; $-OR^{836}$ wherein R^{836} represents C_{1-4} alkyl; a halogen atom; nitro; or $-NR^{837}R^{838}$ wherein R^{837} and R^{838} , which may be the same or different, represent a hydrogen atom or C_{1-4} alkyl in which the alkyl group is optionally substituted by hydroxyl, $-OR^{839}$ wherein R^{839} represents C_{1-4} alkyl, or $-NR^{840}R^{841}$ wherein R^{840} and R^{841} , which may be the same or different, represent a hydrogen atom or C_{1-4} alkyl.

Claim 65 (Original): The compound according to claim 64, wherein X represents CH and all of R⁸³¹, R⁸³², R⁸³³, R⁸³⁴, and R⁸³⁵ represent a hydrogen atom, or any one of R⁸³¹, R⁸³², R⁸³³, R⁸³⁴, and R⁸³⁵ represents a group other than a hydrogen atom and the remaining groups represent a hydrogen atom.

Claim 66 (Original): The compound according to claim 65, wherein all of R^{831} , R^{832} , R^{833} , R^{834} , and R^{835} represent a hydrogen atom, or any one of R^{831} , R^{832} , R^{833} , R^{834} , and R^{835} represents C_{1-6} alkyl, $-OR^{836}$, a halogen atom, or nitro and the remaining groups represent a hydrogen atom.

Claim 67 (Original): The compound according to claim 65, wherein R⁸³¹ represents methoxy and R⁸³², R⁸³³, R⁸³⁴, and R⁸³⁵ represent a hydrogen atom, or R⁸³² represents a bromine atom or methoxy and R⁸³¹, R⁸³³, R⁸³⁴, and R⁸³⁵ represent a hydrogen atom, or R⁸³³ represents a bromine atom, a chlorine atom, a fluorine atom, methyl, methoxy, or nitro and R⁸³¹, R⁸³², R⁸³⁴, and R⁸³⁵ represent a hydrogen atom.

Claim 68 (Previously Presented): The compound according to claim 65, wherein R^{804} and R^{805} represent methoxy.

Claim 69 (Previously Presented): The compound according to claim 65, wherein R^{804} represents methoxy and R^{805} represents C_{1-4} alkoxy substituted by a saturated or unsaturated five- or six-membered carbocyclic or heterocyclic group.

Claim 70 (Original): The compound according to claim 64, wherein X represents CH, R⁸⁰² represents methyl, and all of R⁸³¹, R⁸³², R⁸³³, R⁸³⁴, and R⁸³⁵ represent a hydrogen atom, or any one of R⁸³¹, R⁸³², R⁸³³, R⁸³⁴, and R⁸³⁵ represents a group other than a hydrogen atom and the remaining groups represent a hydrogen atom.

Claim 71 (Original): The compound according to claim 70, wherein all of R^{831} , R^{832} , R^{833} , R^{834} , and R^{835} represent a hydrogen atom, or any one of R^{831} , R^{832} , R^{833} , R^{834} , and R^{835} represents C_{1-6} alkyl, $-OR^{836}$, a halogen atom, or nitro and the remaining groups represent a hydrogen atom.

Claim 72 (Original): The compound according to claim 70, wherein R⁸³¹ represents methoxy and R⁸³², R⁸³³, R⁸³⁴, and R⁸³⁵ represent a hydrogen atom, or R⁸³² represents a bromine atom or methoxy and R⁸³¹, R⁸³³, R⁸³⁴, and R⁸³⁵ represent a hydrogen atom, or R⁸³³ represents a bromine atom, a chlorine atom, a fluorine atom, methyl, methoxy, or nitro and R⁸³¹, R⁸³², R⁸³⁴, and R⁸³⁵ represent a hydrogen atom.

Claim 73 (Previously Presented): The compound according to claim 70, wherein R^{804} and R^{805} represent methoxy.

Claim 74 (Previously Presented): The compound according to claim 70, wherein R^{804} represents methoxy and R^{805} represents C_{1-4} alkoxy substituted by a saturated or unsaturated five- or six-membered carbocyclic or heterocyclic group.

Claim 75 (Original): The compound according to claim 64, wherein X represents N and all of R⁸³¹, R⁸³², R⁸³³, R⁸³⁴, and R⁸³⁵ represent a hydrogen atom, or any one of R⁸³¹, R⁸³², R⁸³³, R⁸³⁴, and R⁸³⁵ represents a group other than a hydrogen atom and the remaining groups represent a hydrogen atom.

Claim 76 (Original): The compound according to claim 75, wherein all of R^{831} , R^{832} , R^{833} , R^{834} , and R^{835} represent a hydrogen atom, or any one of R^{831} , R^{832} , R^{833} , R^{834} , and R^{835} represents C_{1-6} alkyl, $-OR^{836}$, a halogen atom, or nitro and the remaining groups represent a hydrogen atom.

Claim 77 (Original): The compound according to claim 75, wherein R⁸³¹ represents methoxy and R⁸³², R⁸³³, R⁸³⁴, and R⁸³⁵ represent a hydrogen atom, or R⁸³² represents a bromine atom or methoxy and R⁸³¹, R⁸³³, R⁸³⁴, and R⁸³⁵ represent a hydrogen atom, or R⁸³³ represents a bromine atom, a chlorine atom, a fluorine atom, methyl, methoxy, or nitro and R⁸³¹, R⁸³², R⁸³⁴, and R⁸³⁵ represent a hydrogen atom.

Claim 78 (Previously Presented): The compound according to claim 75, wherein R^{804} and R^{805} represent methoxy.

Claim 79 (Previously Presented): The compound according to claim 75, wherein R^{804} represents methoxy and R^{805} represents C_{1-4} alkoxy substituted by a saturated or unsaturated five- or six-membered carbocyclic or heterocyclic group.

Claim 80 (Original): The compound according to claim 64, wherein X represents N, R⁸⁰² represents methyl, and all of R⁸³¹, R⁸³², R⁸³³, R⁸³⁴, and R⁸³⁵ represent a hydrogen atom, or any one of R⁸³¹, R⁸³², R⁸³³, R⁸³⁴, and R⁸³⁵ represents a group other than a hydrogen atom and the remaining groups represent a hydrogen atom.

Claim 81 (Original): The compound according to claim 80, wherein all of R^{831} , R^{832} , R^{833} , R^{834} , and R^{835} represent a hydrogen atom, or any one of R^{831} , R^{832} , R^{833} , R^{834} , and R^{835} represents C_{1-6} alkyl, $-OR^{836}$, a halogen atom, or nitro and the remaining groups represent a hydrogen atom.

Claim 82 (Original): The compound according to claim 80, wherein R⁸³¹ represents methoxy and R⁸³², R⁸³³, R⁸³⁴, and R⁸³⁵ represent a hydrogen atom, or R⁸³² represents a bromine atom or methoxy and R⁸³¹, R⁸³³, R⁸³⁴, and R⁸³⁵ represent a hydrogen atom, or R⁸³³ represents a bromine atom, a chlorine atom, a fluorine atom, methyl, methoxy, or nitro and R⁸³¹, R⁸³², R⁸³⁴, and R⁸³⁵ represent a hydrogen atom.

Claim 83 (Previously Presented): The compound according to claim 80, wherein R^{804} and R^{805} represent methoxy.

Claim 84 (Previously Presented): The compound according to claim 80, wherein R^{804} represents methoxy and R^{805} represents C_{1-4} alkoxy substituted by a saturated or unsaturated five- or six-membered carbocyclic or heterocyclic group.

Claim 85 (Cancelled)

Claim 86 (Currently Amended): A pharmaceutical composition comprising a compound according to <u>any one of claims</u> 19, 22, 23, 36, 47, or 64, or a pharmaceutically acceptable salt or solvate thereof as an active ingredient.

Claims 87-90. (Canceled)

Claim 91 (Currently Amended): A method for treating osteoporosis or bone metastasis of a malignant tumor-comprising:

administering a therapeutically effective amount of a compound of formula I or a pharmaceutically acceptable salt or solvate thereof to a mammal in need thereof,

wherein formula I is:

wherein

X represents CH or N;

Z represents O or S;

R¹, R², and R³, which may be the same or different, represent a hydrogen atom; a halogen atom; hydroxyl; cyano; C₁₋₆ alkyl; C₁₋₆ alkoxy; C₂₋₆ alkenyl; C₂₋₆ alkynyl; nitro; -NR 106R 107 wherein R 106 and R 107, which may be the same or different, represent a hydrogen atom or C₁₋₄ alkyl in which the alkyl group is optionally substituted by hydroxyl, -OR 108 wherein R^{108} represents C_{1-4} alkyl, or -NR¹⁰⁹R¹¹⁰ wherein R^{109} and R^{110} , which may be the same or different, represent a hydrogen atom or C₁₋₄ alkyl; -CONR¹¹¹R¹¹² wherein R¹¹¹ and R¹¹², which may be the same or different, represent a hydrogen atom or C₁₋₄ alkyl in which the alkyl group is optionally substituted by hydroxyl, -OR¹¹³ wherein R¹¹³ represents C₁₋₄ alkyl, or -NR114R115 wherein R114 and R115, which may be the same or different, represent a hydrogen atom or C₁₋₄ alkyl; or -COOR¹¹⁶ wherein R¹¹⁶ represents a hydrogen atom or C₁₋₄ alkyl in which the alkyl group is optionally substituted by hydroxyl, $-OR^{117}$ wherein R^{117} represents C_{1-4} alkyl, or -NR¹¹⁸R¹¹⁹ wherein R¹¹⁸ and R¹¹⁹, which may be the same or different, represent a hydrogen atom or C₁₋₄ alkyl in which the C₁₋₆ alkyl, C₁₋₆ alkoxy, C₂₋₆ alkenyl, and C₂₋₆ alkynyl groups are optionally substituted by a halogen atom; hydroxyl; C₁₋₄ alkyl; C₁₋₄ alkoxy; C₁₋₄ alkoxycarbonyl; amino in which one or two hydrogen atoms on the amino group each are optionally substituted by C₁₋₄ alkyl optionally substituted by hydroxyl or C₁₋₄ alkoxy; group R¹⁵R¹⁶N-C(=O)-O- wherein R¹⁵ and R¹⁶, which may be the same or different, represent a hydrogen atom or C₁₋₄ alkyl in which the alkyl group is optionally substituted by hydroxyl or C_{1-4} alkoxy; or group R^{17} - $(S)_m$ - wherein R^{17} represents a saturated or unsaturated three- to seven-membered carbocyclic or heterocyclic group optionally substituted by a halogen atom or C₁₋₄ alkyl and m is 0 (zero) or 1,

R⁴ represents a hydrogen atom,

R⁵, R⁶, R⁷, and R⁸, which may be the same or different, represent a hydrogen atom, a halogen atom, C₁₋₄ alkyl, C₁₋₄ alkoxy, C₁₋₄ alkylthio, trifluoromethyl, nitro, or amino,

 R^9 and R^{10} , which may be the same or different, represent a hydrogen atom, C_{1-6} alkyl, or C_{1-4} alkylcarbonyl, and

any one of R^{11} and R^{12} represents a hydrogen atom while the other represents $C_{1.4}$ alkyl, and R^{13} represents a saturated or unsaturated three- to seven-membered carbocyclic or heterocyclic group or a saturated or unsaturated nine- to twelve-membered bicylic carbocyclic group in which the carbocyclic and heterocyclic groups are optionally substituted by a halogen atom; hydroxyl; $C_{1.4}$ alkyl; $C_{1.4}$ alkoxy; $C_{1.4}$ alkylthio; trifluoromethyl; nitro; or $-NR^{137}R^{138}$ wherein R^{137} and R^{138} , which may be the same or different, represent a hydrogen atom or $C_{1.4}$ alkyl in which the alkyl group is optionally substituted by hydroxyl, $-OR^{139}$ wherein R^{139} represents $C_{1.4}$ alkyl, or $-NR^{140}R^{141}$ wherein R^{140} and R^{141} , which may be the same or different, represent a hydrogen atom or $C_{1.4}$ alkyl, or

R¹¹ represents a hydrogen atom, and R¹² and R¹³ may combine with a carbon atom attached thereto to form a saturated or unsaturated nine- to twelve-membered bicyclic carbocyclic group.

Claim 92 (Previously Presented): The method according to claim 91, wherein the disease is osteoporosis.

Claim 93 (Previously Presented): The method of claim 92, wherein the disease is a bone metastasis of a malignant tumor where the malignant tumor is selected from the group consisting of breast cancer, prostatic cancer, lung cancer, and multiple myeloma.

Claim 94 (Cancelled)

Claim 95 (Previously Presented): The compound according to claim 19, which is selected from the group consisting of:

(70)N-{4-[(6,7-dimethoxy-4-quinolyl)oxy]-2-fluorophenyll-N'-[1-(1,3-thiazol-2-yl)ethyl]urea;

 $(71)N-\{4-[(6,7-dimethoxy-4-quinolyl)oxy]-2-fluorophenyl\}-N'--[(1S)-1-(1,3-thiazol-2-yl)ethyl]urea;$

 $(72) N-\{4[(6,7-dimethoxy-4-quinolyl)oxy]-2-fluorophenyl)-N'-[(1R)-1-(1,3-thiazol-2-yl)ethyl] urea;$

 $(73) N-\{4-[(6,7-dimethoxy-4-quinolyl)oxy]-3-fluorophenyl\}-N'-[1-(1,3-thiazol-2-yl)ethyl]urea;$

 $(74)N-\{4[(6,7-dimethoxy-4-quinolyl)oxy]-2-methoxyphenyl\}-N'-[1-(1,3-thiazol-2-yl)ethyl]urea;$

 $(75)N-\{4-[(6,7-dimethoxy-4-quinolyl)oxy]-2-methoxyphenyl\}-N'-[(1S)-1-(1,3-thiazol-2-yl)ethyl]urea;$

 $(76) N- \{4-[(6,7-dimethoxy-4-quinolyl)oxy]-2-methoxyphenyl\}-N'-[(1R)-1-(1,3-thiazol-2-yl)ethyl]urea;$

 $(77)N-\{4-[(6,7-dimethoxy-4-quinolyl)oxy]pheny1\}-N'-[1-(1,3-thiazol-2-yl)ethyl]urea;$

 $(78)N-\{4-[(6,7-dimethoxy-4-quinolyl)oxy]phenyl\}-N'-[(1S)-1-(1,3-thiazol-2-yl)ethyl]urea;$

 $(79)N-\{4-[(6,7-dimethoxy-4-quinolyl)oxy]phenyl\}-N'-[(1R)-1--(1,3-thiazol-2-yl)ethyl]urea;$

 $(80) N- \{4-[(6,7-dimethoxy-4-quinolyl)oxy]-3-methoxyphenyl\}-N'-[1-(1,3-thiazol-2-yl)ethyl] urea;$

- $(81) N-\{4-[(6,7-dimethoxy-4-quinolyl)oxy]-3-methoxyphenyl\}-N'-[(1S)-1-(1,3-thiazol-2-yl)ethyl] urea;$
- $(82) N-\{4-[(6,7-dimethoxy-4-quinolyl)oxy]-3-methoxyphenyl\}-N'-[(1R)-1-(1,3-thiazol-2-yl)ethyl] urea;$
- $(86) N-\{4-[(6,7-dimethoxy-4-quinolyl)oxy]-2,5-dimethylphenyl\}-N'-[(1S)-1-(1,3-thiazol-2-yl)ethyl] urea;$
- $(87)N-\{4[(6,7-dimethoxy-4-quinolyl)oxy]-2,5-dimethylphenyl)-N'-[(1R)-1-(1,3-thiazol-2-yl)ethyl]urea;$
- $(88)N-\{4-[(6,7-dimethoxy-4-quinolyl)oxy]-2-fluorophenyl\}-N'-11-(4-methyl-1,3-thiazol-2-yl)ethyl]urea;$
- $(89) N- \{4-[(6,7-dimethoxy-4-quinolyl)oxy]-3-fluorophenyl\}-N'-[1-(4-methyl-1,3-thiazol-2-yl)ethyl] urea;$
- $(90)N-\{4-[(6,7-dimethoxy-4-quinolyl)oxy]-2-methoxyphenyl\}-N'-[1-(4-methyl-1,3-thiazol-2-yl)ethyl]urea;$
- (91)N-{4-[(6,7-dimethoxy-4-quinolyl)oxy]phenyl)-N'-[1-(4- methyl-1,3-thiazol-2-yDethyl]urea;
- $(93)N-\{4-[(6,7-dimethoxy-4-quinolyl)oxy]-2,5-dimethylphenyl\}-N'-[l-(4-methyl-1,3-thiazol-2-yl)ethyl]urea;$
- $(94)N-\{4-[(6,7-dimethoxy-4-quinolyl)oxy]phenyl\}-N'-[1-(4,5-dimethyl-1,3-thiazol-2-yl)ethyl]urea;$
- $(95)N-\{4-[(6,7-dimethoxy-4-quinolyl)oxy]-2-fluorophenyll-N'-[1-(4,5-dimethyl-1,3-thiazol-2-yl)ethyl]urea;$
- (98)N-{4-[(6,7-dimethoxy-4-quinolyl)oxy]-2,5-dimethylphenyl)-N'-[1-(4,5-dimethyl-1,3-thiazol-2-yl)ethyl]urea;

(99)N-{4-[(6,7-dimethoxy-4-quinolyl)oxy]-2-methoxyphenyl}-N'-[1-(4,5-dimethyl-1,3-thiazol-2-yl)ethyl]urea;

 $(100) N-\{4-[(6,7-dimethoxy-4-quinolyl)oxy] pheny1\}-N'-[1-(5-methyl-1,3-thiazol-2-yl)ethyl] urea;$

 $(101)N-\{4-[(6,7-dimethoxy-4-quinolyl)oxy]-2-fluorophenyl)-\ N'-[1-(5-methyl-1,3-thiazol-2-yl)ethyl]urea; and$

 $(105)N-\{4-[(6,7-dimethoxy-4-quinolyl)oxy]-2-methoxyphenyl\}-N'-[1-(5-methyl-1,3-thiazol-2-yl)ethyl]urea.$

Claim 96 (Previously Presented): The compound according to claim 22, which is selected from the group consisting of:

 $\label{eq:continuous} \ensuremath{(2)N-\{4-[(6,7-dimethoxy-4-quinolyl)oxy]phenyl)-N'-[(1S)-1-(4-fluorophenyl)ethyl]urea;}$

(5)N-{2-Chloro-4-[(6,7-dimethoxy-4-quinolyl)oxy]phenyl}-N'-[(1S)-1-(4-fluorophenyl)ethyl]urea;

 $(8) N- \{4-[(6,7-dimethoxy-4-quinolyl)oxy]-2,5-dimethylphenyl\}-N'-[(1S)-1-(4-dimethylphenyl)] urea;$

(11)N-{3-Chloro-4-[(6,7-dimethoxy-4-quinolyl)oxy]phenyl)- N'-[(1S)-1-(4-fluorophenyl)ethyl]urea;

 $(14) N-\{4-[(617-dimethoxy-4-quinolyl)oxy]-2-methylphenyl\}-\ N'[(1S)-1-(4-fluorophenyl)ethyl]urea;$

 $(17)N-\{4-[(6,7-dimethoxy-4-quinolyl)oxy]-2-methoxyphenyl\}-N'-[(1S)-1-(4-fluorophenyl)ethyl]urea;$

 $(20) N-[4-(6,7-dimethoxy-4-quinolyl) oxy]-2-(trifluoromethyl)\ phenyl]-N'-(1S)-1-(4-fluorophenyl) ethyl] urea;$

 $(23) N- \{4-[(6,7-dimethoxy-4-quinolyl)oxy]-3-methoxyphenyl]-N'[(1S)-1-(4-fluorophenyl)ethyl]urea;$

 $(26) N- \{4-[(6,7-dimethoxy-4-quinolyl)oxy]-2,3-dimethylphenyl\}-N'-[(1S)-1-(4-dimethylphenyl)] urea; \\$

(29)N-{4-[(6,7-dImethoxy-4-quinolyl)oxy]-2-fluorophenyl)-N'-[(1S)-1-(4-fluorophenyl)ethyl]urea;

 $(32) N- \{4-[(6,7-dimethoxy-4-quinolyl)oxy]-3-fluorophenyl\}-N'-[(1S)-1-(4-fluorophenyl)ethyl]urea;$

 $(34)N-[(1S)-1-(4-bromophenyl)ethyl]-N'-\{4-[(6,7-dimethoxy-4-quinolyl)oxy]phenyl\}urea;$

 $(35) N- \{4-[(6,7-dimethoxy-4-quinolyl)oxy] phenyl\}-N'-(1S)-1-(4-nitrophenyl)ethyl] urea;$

(41)N-{4-[(6,7-dimethoxy-4-quinolyl)oxy]phenyl}-W-[(1S)-1 -(4-methylphenyl)ethyl]urea;

 $(46)N-[(1S)-1-(3-bromophenyl)ethyl]-N'-\{4-[(6,7-dimethoxy-4-quinolyl)oxy]phenyl\}urea;$

 $(47)N-[(1S)-1-(4-chlorophenyl)ethy1]-N'-\{4-[(6,7-dimethoxy-4-quinolyl)oxy]phenyl\}urea;$

 $(49)N-\{4-[(6,7-dimethoxy-4-quinolyl)oxy]phenyl\}-N'-[(1S)-1-(3-methoxyphenyl)ethyl]urea;$

 $(51)N-\{4-[(6,7-dimethoxy-4-quinolyl)oxy]pheny1\}-N'-[(1S)-1-(2-methoxyphenyl)ethyl]urea; and$

 $(53) N- \{4-[(6,7-dimethoxy-4-quinolyl)oxy] phenyl\}-N'-[(1S)-1-(4-methoxyphenyl)ethyl] urea.$